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APPLICATION N	0.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/607,434		06/26/2003	Mark P. Anstadt	MPA-554	5213	
37282	7590	04/11/2006	EXAMINER			
		REENWALD P.C.	OROPEZA, I	OROPEZA, FRANCES P		
349 W. COMMERCIAL S EAST ROCHESTER, NY			-	ART UNIT	PAPER NUMBER	
		,		3766		
				DATE MAILED: 04/11/2000	DATE MAILED: 04/11/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
057	10/607,434	ANSTADT ET AL.					
Office Action Summary	Examiner	Art Unit					
	Frances P. Oropeza	3766					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim 11 apply and will expire SIX (6) MONTHS from 12 cause the application to become ABANDONE	the mailing date of this communication.  O (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 2/28/	06 (Amendment).						
<u> </u>	action is non-final.						
3) Since this application is in condition for allowan	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	33 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) <u>131,133,150-155 and 243</u> is/are pending in the application.							
4a) Of the above claim(s) 243 is/are withdrawn	4a) Of the above claim(s) <u>243</u> is/are withdrawn from consideration.						
Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>131,133 and150-155</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examine	r.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the							
Replacement drawing sheet(s) including the correcti							
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) ☐ Acknowledgment is made of a claim for foreign	nriority under 35 H.S.C. & 119(a)	-(d) or (f)					
a) All b) Some * c) None of:	priority under 35 5.5.5. § 115(a)	· (a) 51 (i).					
1.☐ Certified copies of the priority documents	s have been received						
2. Certified copies of the priority documents		on No					
3. Copies of the certified copies of the prior	• •						
application from the International Bureau	•	· · · · · · · · · · · · · · · · · · ·					
* See the attached detailed Office action for a list of	• • • • • • • • • • • • • • • • • • • •	d.					
ood the attached detailed office action for a field	or and common corp. common com						
Attachment(s)  Notice of References Cited (PTO-892)	4) 🔲 Interview Summary	(PTO-413)					
Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	te					
3) 🔯 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	· · · · · · · · · · · · · · · · · · ·	atent Application (PTO-152)					
Paper No(s)/Mail Date <u>2/28/06</u> .	6) Other:						
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### **DETAILED ACTION**

#### Restriction

1. Newly submitted claim 243 is directed to an invention that is independent or distinct from the invention originally claimed for the following reasons: claim 243 comprises a first cavity corresponding to the left ventricle and a second cavity corresponding to the right ventricle, the first and second cavities together extending circumferentially completely around the outer wall.

Since applicant has received an action on the merits for the originally presented invention, this invention has been constructively elected by original presentation for prosecution on the merits. Accordingly, claim 243 is withdrawn from consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP § 821.03.

# Response

2. The Applicant at least amended the independent claim is the response filed 2/28/06, hence the rejection of record is withdrawn and a new rejection established in the subsequent paragraphs.

### Claim Rejections - 35 USC § 103

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

4. Claims 131, 133 and 151-155 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rosenberg et al. (US 5713954) in view of Snyders (US 4690134).

Rosenberg discloses a fluid displacement mechanical ventricular assist apparatus (figure 2) comprising an outer wall, and a controller (23) with algorithm that processes an ECG related to the function of the heart and a hydraulic stroke volume (flow rate) and a hydraulic pressure related to the assist apparatus, and exports a command to control the drive fluid of the apparatus. The apparatus comprises multiple cylindrical tubes, each tube being a single continuous cavity, and each tube wrapped circumferentially in a vertical direction (abstract; fig 2; col. 3 @ 25-50 and 62-67; col. 5 @ 44-63; col. 6 @ 57-62; col. 9 @ 23-27 and 51-60; col. 10 @ 5-10; col. 11 @ 23-31).

As to claim 155, the command instruction maintains the heart constant in that the device is hydraulically actuated in timed relationship to the contractions of a healthy natural heart beat (col. 3 @ 25-36).

As to claim 131, the first and second cavities extend circumferentially completely around the outer wall (figures 2, 3; col. 3 @ 48-52).

As discussed in the previous three paragraphs of this action, Rosenberg et al. disclose the claimed invention except for the controller effecting changes in the volume within the single continuous cavity of variable volume (claim 131).

Snyders teaches ventricular assist using a controller to change volumes within the single continuous cavity of variable volume for the purpose of varying the ventricular ejection volume. It would have been obvious to one having ordinary skill in the art at the time of the invention to have the controller effect changes in the volume within the single continuous cavity of variable

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volume in the Rosenberg et al. system in order to properly adjust the ventricular ejection volume to establish the right and left ejection pressures appropriate for the patient (col. 5 @ 17-28).

4. Claims 131 and 151-155 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kung et al. (US 6626821) and further in view of Snyder (US 4690134).

Kung et al. discloses a fluid displacement mechanical ventricular assist apparatus (figs 1, 32; col. 5 @ 59 – col. 6 @ 6; col. 13 @ 28-40) comprising an outer wall, and a controller (122, 529) that receives sensed cardiac information (531) from multiple sensors and synchronizes the pump operation with the ventricles (read to be an algorithm) by exporting commands from the controller. The apparatus comprises multiple inflation elements, each tube being a single continuous cavity, and each tube wrapped circumferentially in a vertical direction (col. 6 @ 13-19; col. 13 @ 27-40).

As to claim 133, the utilization of an assist device by a physician for a particular patient is understood to include not only implantation but also operation of the device, hence the physician defines the parameters utilized in the system to define heart functioning (col. 1 @ 56-60).

As to claims 153 and 154, the controller process pump flow rate and pump pressure related to the assist apparatus (col. 3 @ 58-61; col. 14 @ 10-44; col. 16 @ 1-3; col. 17 @ 59-64).

As to claim 155, the cardiac wrap is flow balanced to adapt to the individual patient needs, hence keeping the function of the heart constant (col. 3 @ 28 - col. 4 @ 7).

As discussed in the previous four paragraphs of this action, Kung et al. disclose the claimed invention except for the controller effecting changes in the volume within the single continuous cavity of variable volume (claim 131).

Snyders teaches ventricular assist using a controller to change volumes within the single continuous cavity of variable volume for the purpose of varying the ventricular ejection volume.

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It would have been obvious to one having ordinary skill in the art at the time of the invention to have the controller effect changes in the volume within the single continuous cavity of variable volume in the Kung et al. system in order to properly adjust the ventricular ejection volume to establish the right and left ejection pressures appropriate for the patient (col. 5 @ 17-28).

## Statutory Basis

5. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

### Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fran Oropeza whose telephone number is (571) 272-4953.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert E. Pezzuto can be reached on (571) 272-6996. The fax phone numbers for the organization where this application or proceeding is assigned is (571) 273-8300 for regular communication and for After Final communications.

Frances P. Oropeza Patent Examiner Art Unit 3766 Robert E. Pezzuto

Supervisory Patent Examiner

Art Unit 3766